NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Chemistry Chemical Reactions and Equations (Ch. 9 Outline)**

***AS YOU READ, RESPOND TO THE FOLLOWING:***

*Vocabulary*: **Define in your own words**

chemical reaction-

reactant-

product-

chemical equation-

coefficient-

synthesis reaction-

combustion reaction-

decomposition reaction-

single-replacement reaction-

double-replacement reaction-

precipitate-

aqueous solution-

solute-

solvent-

Respond to the questions/prompts below:

What is evidence of chemical change? (2 pts)

How are chemical reactions represented? (1 pt)

Why do chemical equations need to be balanced? (1 pt)

What are the steps for balancing a chemical equation? (6 pts)

How can you predict whether reactions in aqueous solutions will produce a precipitate, water or gas? Be specific in your response. (2 pts)

How are complete ionic and net ionic equations written differently? Explain how to write each type of equation for chemical reaction. (3 pts)

***ABOUT THE READING:***

Write three things that you learned about Chemical Rxns/Equations*:*

***Make sure to write a full sentence.***

*Example: I learned that temperature is a measure of an object's average kinetic energy.*

*1.*

*2.*

*3.*

***Assigned work****: Chapter 9 assessment, problems # 62, 65-66, 68-69, 80, 85, 96, 99*